CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

CP/TF/01

# TEST REPORT ON BITUMEN

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-10-26-03** **Date: 27-10-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub division, BBMP, |
| **Address** | : | Yelahanka Sub division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting to roads at Jayanna Layout and Surrounding areas in Ward no.01 of Yelahanka Sub Division. |
| **Agency** | : | Sri. B. R. Dananjaya, No.22, Gundappa road, 3rd cross, floor mill road, Nagashettyhalli, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-02/WO/111/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-10-17 |
| **Sample ID No** | : | 2017-10-26-03-01 |
| **Sample Type** | : | Bitumen |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) |
| **Date of test** | : | 26-10-17 |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | **67** | 60 to 70 |
| 2 | Softening Point, °C | **52** | Min. 40°C |
| 3 | Ductility, cm | **97** | Min. 75cm |
| 4 | Flash point, °C | **246** | Min. 220°C |
| | Fire point, °C | **267** | |

**Note:**
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO BANGALORE Sig..... Date.....

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



****End of Report****

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

# TEST RESULTS OF GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2017-11-08-01** **Date: 11-11-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting to roads at Jayanna Layout and Surrounding areas in Ward no.01 of Yelahanka Sub Division. |
| **Agency** | : | Sri.B.R.Dananjaya, No.22, Gundappa road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore. |
| **Customer Reference** | : | EE(YNK.D) E-PMT-02/W.O/111/2017-18. |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-11-17 |
| **Sample ID No** | : | 2017-11-08-01/01 |
| **Type of Mix** | : | DBM-Plant (Dense Bituminous Macadam) |
| **Date of test** | : | 08-11-17 |
| **Weight of Sample** | : | 5000 Grams |

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10 (grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100.00 | 100 |
| 26.5 | 193 | 193 | 3.86 | 96.14 | 90-100 |
| 19 | 1018 | 1211 | 24.22 | 75.78 | 71-95 |
| 13.2 | 228 | 1439 | 28.78 | 71.22 | 56-80 |
| 4.75 | 1047 | 2486 | 49.72 | 50.28 | 38-54 |
| 2.36 | 889 | 3375 | 67.50 | 32.50 | 28-42 |
| 0.3 | 1164 | 4539 | 90.78 | 9.22 | 7-21 |
| 0.075 | 352 | 4891 | 97.82 | 2.18 | 2-8 |
| PAN | 109 | 5000 | 0.00 | 0.00 | 0 |

**Note:-**

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CIVIL PRO Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**
**R RUDRAPRASAD**
**Authorized Signatory**
**Technical Manager**


*End of Report*

civilproexperts@gmail.com

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# TEST RESULTS OF GRADATION FOR WMM

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2017-10-23-04** **Date: 25-10-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting to roads at Jayanna Layout and Surrounding areas in Ward no.01 of Yelahanka Sub Division. |
| **Agency** | : | Sri.B.R.Dananjaya, No.22, Gundappa road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore. |
| **Customer Reference** | : | EE(YNK.D) E-PMT-02/W.O/111/2017-18. |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 23-10-17 |
| **Sample ID No** | : | 2017-10-23-04/01 |
| **Type of Mix** | : | WMM ( Wet Mix Macadam) |
| **Date of test** | : | 23-10-17 |
| **Oven Dry Weight** | : | 11000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 187 | 187 | 1.7 | 98.3 | 95-100 |
| 22.4 | 2198 | 2385 | 21.7 | 78.3 | 60-80 |
| 11.2 | 2214 | 4599 | 41.8 | 58.2 | 40-60 |
| 4.75 | 2387 | 6986 | 63.5 | 36.5 | 25-40 |
| 2.36 | 1798 | 8784 | 79.9 | 20.1 | 15-30 |
| 0.6 | 985 | 9769 | 88.8 | 11.2 | 8-22 |
| 0.075 | 1054 | 10823 | 98.4 | 1.6 | 0-5 |

**Note:-**

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**R RUDRAPRASAD**
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*End of Report*